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Amendments to the Claims

The following list reflects amendments to the claims and replaces all prior versions and listings of claims in this application.

Claims 1 – 25 (Cancelled)

Claim 26 (Currently amended): A spray drying system for forming a pharmaceutical formulation, the system comprising:

an atomizer, the atomizer comprising a first <u>liquid flow</u> channel <u>for a liquid flow</u>, wherein said first <u>liquid flow</u> channel comprises a constriction having a diameter less than 0.51 mm (0.020 in) for spreading [[the]] <u>a</u> liquid into a thin film in the channel, the atomizer further comprising <u>first and second gas flow</u> a <u>second channel channels</u> for an atomizing gas flow, wherein said first <u>liquid flow</u> channel is <u>not contained within the channel of said intermediate to the first and second channel gas flow channels, and said <u>first and</u> second <u>gas flow</u> channel is <u>channels being</u> positioned so that the atomizing gas impinges the liquid thin film to produce droplets;</u>

a drying chamber to dry the droplets to form particles; and a collector to collect the particles.

Claim 27 (Cancelled)

Claim 28 (Previously Presented): The system of claim 26, wherein the constriction has a diameter less than 0.1 mm (0.005 in).

Claim 29 (Cancelled)

Claim 30 (Currently Amended): The system of claim 26, wherein the first <u>liquid flow</u> channel is <u>annular</u>, the first gas flow channel is circular and the second gas flow channel is annular.

Claim 31 (Currently Amended): The system of claim [[26]] 30, wherein the drying chamber has a gas inlet stream having an inlet temperature of at least 90°C and further including a third gas flow channel in fluid communication with and perpendicular to said first gas flow channel

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wherein a flow of gas exiting the third gas flow channel impinges the thin film at a right angle thereto.

Claim 32 (Previously Presented): The system of claim 26, wherein the drying chamber has a gas outlet stream having an outlet temperature of at least 50°C.

Claims 33 – 39 (Cancelled)

Claim 40 (Currently Amended): The system of claim [[33]] <u>26</u>, wherein the pharmaceutical liquid comprises an active agent and an excipient.

Claim 41 (Currently Amended): The system of claim [[33]] <u>26</u>, wherein the particles have a rugosity above 2.

Claim 42 (Currently Amended): The system of claim [[33]] <u>26</u>, wherein the particles have a density below 0.5 g/cm³.

Claim 43 (Previously Presented): The system of claim 40, wherein said excipient has a glass transition temperature above 35°C.

Claim 44 (Currently Amended): The system of claim [[33]] $\underline{26}$, wherein the particles have a mass median diameter less than 20 μ m.

Claim 45 (Currently amended): A spray drying system for forming a pharmaceutical formulation, the system comprising:

an atomizer, the atomizer comprising a first annular channel for a liquid flow, wherein said first <u>annular</u> channel comprises a constriction having a diameter less than 0.51 mm (0.020 in) for spreading [[the]] <u>a</u> liquid into a thin film in the channel, the atomizer further comprising a second annular channel for an atomizing gas flow, wherein said first <u>and second</u> annular channel is not contained within the channel of said second annular channel channels are concentric, and said second annular channel is positioned <u>in proximity to the first annular channel</u> so that the atomizing gas impinges the liquid thin film to produce droplets;

a drying chamber to dry the droplets to form particles; and

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a collector to collect the particles.

Claim 46 (Cancelled):

Claim 47 (Previously Presented): The system of claim 45, wherein the constriction has a diameter less than 0.1 mm (0.005 in).

Claims 48 – 50 (Cancelled)

Claim 51 (Currently Amended): The system of claim [[33]] <u>45</u>, wherein the particles have a rugosity above 2.